

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,012,199 B2  
APPLICATION NO. : 09/454969  
DATED : March 14, 2006  
INVENTOR(S) : Ryoji Fukuda

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**COLUMN 2:**

Line 17, "in incline" should read --an incline--; and  
Line 64, "X=ax+by=C" should read --X=ax+by+c--.

**COLUMN 4:**

Line 51, "fist" should read --first--.

**COLUMN 5:**

Line 60, "roll" should read --role--.

**COLUMN 8:**

Line 50, "coordinates;" should read --coordinates--.

**COLUMN 9:**

Line 12, "in put" should read --input--;  
Line 16, "coordinate," should read --coordinates--; and  
Line 62, "(A( )," should read --A( ),--.

**COLUMN 10:**

Line 5, " $y_s=y_{se}-s_{sw}$ " should read -- $y_s=y_{se}-y_{sw}$ --;  
Line 29, "is" should read --m is--.

**COLUMN 11:**

Line 38, "executes;" should read --executes--.

**COLUMN 13:**

Line 47, "is;" should read --is--.

**COLUMN 15:**

Line 17, "(A( )," should read --A( ),--.

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**COLUMN 16:**

Line 32, "are kept" should be deleted.

**COLUMN 20:**

Line 38, "coordinate" should read --coordinates--; and  
Line 52, "an" should read --a--.

**COLUMN 21:**

Line 31, "parameter" should read --parameters--.

**COLUMN 22:**

Line 14, "coordinate" should read --coordinates--;  
Line 31, "an" should read --a--; and  
Line 37, "receiving" should read --received--.

**COLUMN 23:**

Line 13, "liquid" should read --a liquid--.

**COLUMN 24:**

Line 27, "computer readable" should read --computer-readable--.

Signed and Sealed this

Seventeenth Day of June, 2008



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*